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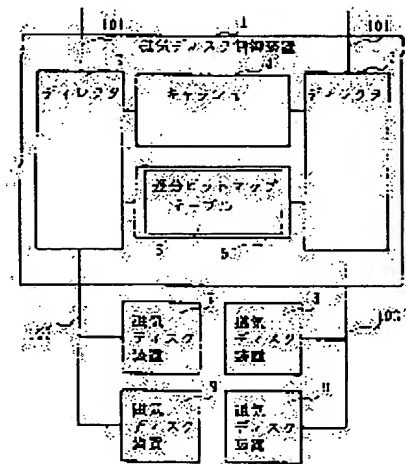
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(54) DATA MATCHABILITY CONTROL SYSTEM FOR STORAGE DEVICE

(57)Abstract:

PURPOSE: To reduce the control table volume and the control program volume and to accept an N-fold write request during troubling by dividing contents stored in a storage device by an arbitrary unit and providing a difference bit map table indicating whether postwrite data reflects on the storage device or not with respect to each unit.

CONSTITUTION: When both of N-fold write and postwrite are designated, data is stored in a cache 4, and respective bits of a difference bit map table 6 corresponding to write destinations of N-fold write storage devices 7 and 8 are set, and respective corresponding bits are cleared when data stored in the cache 4 is written in storage devices 7 and 8. N-fold write and postwrite functions are managed by the difference bit map, and unitary management is possible. Since difference information for all data in N-fold write storage devices 7 and 8 is managed by the difference bit map table 6 in the N-fold write mode, a two-fold write request can be accepted against the trouble, by which data cannot be written in a part of N-fold write storage devices 7 and 8, by reflection on the difference bit map table 6.



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